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This listing of claims will replace all prior versions, and listings, of claims in the application:

<u>Listing of Claims</u> (deleted text being struck through and added text being underlined):

- 1. (Original) In a network comprising a plurality of computing
  devices, each computing device having a memory and being capable of
  accessing the Internet, and at least one of the computing devices being
  capable of connecting to the Internet, each computing device capable
  of connecting to the Internet having a connection priority, a method
  for assigning an Internet gateway for the network, comprising the
  steps of:
- broadcasting to the network a request to become the gateway
  from one of the computing devices capable of connecting to the
  Internet, wherein the request to become the gateway includes the
  connection priority of the computing device broadcasting the request;
  and
  - assigning the computing device broadcasting the request as the gateway for the network if the computing device broadcasting the request does not receive a response from the other computing devices within a predetermined time period.
- 2. (Original) The method of claim 1, wherein the predetermined time period is approximately 1 to 5 seconds.

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3. (Original) The method of claim 1, wherein each computing device is assigned a unique Internet protocol (IP) address, further comprising the steps of:

broadcasting to the network the IP address of the computing device assigned as the gateway for the network; and

storing in the memory of each computing device the IP address broadcasted to the network as the IP address of the gateway for the network.

- 4. (Original) The method of claim 1, wherein the computing device assigned as the gateway for the network is assigned a unique client IP address and assumes a predetermined gateway IP address.
- 5. (Original) The method of claim 1, wherein one of the computing devices is capable of operating as a proxy for the Internet gateway and is capable of being assigned a unique client IP address and a proxy IP address, and further wherein at least one of the other computing devices is capable of accessing the Internet by performing the steps of:

transmitting from the respective computing device to the proxy

IP address of the proxy a message to be sent to the Internet; and

transmitting from the proxy IP address of the proxy to the

computing device assigned as the gateway for the network the message

to be sent to the Internet.

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6. (Original) The method of claim 1, wherein at least one of the other computing devices capable of connecting to the Internet responds to the broadcasted request to become the gateway by performing the step of:

determining whether the connection priority of the respective computing device is higher than the connection priority included in the broadcasted request to become the gateway;

if the connection priority of the respective computing device is not higher than the connection priority included in the broadcasted request, sending no response to the broadcasted request; and

if the connection priority of the respective computing device is higher than the connection priority included in the broadcast request, performing the steps of:

broadcasting to the network a request to become the gateway from the respective computing device within the predetermined time period, wherein the request to become the gateway includes the connection priority of the respective computing device; and

assigning the respective computing device as the gateway for the network if the respective computing device receives no response from the other computing devices within the predetermined time period.

7. (Original) The method of claim 6, wherein the predetermined time period is approximately 1 to 5 seconds.

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- 8. (Original) The method of claim 6, wherein each computing device is assigned a unique Internet protocol (IP) address, further comprising the step of:
- broadcasting to the network the IP address of the computing device assigned as the gateway for the network; and
- storing in the memory of each computing device the IP address broadcasted to the network as the IP address of the gateway for the network.
  - 9. (Original) The method of claim 6, wherein the computing device assigned as the gateway for the network is assigned a unique client IP address and assumes a predetermined gateway IP address.
- 10. (Original) The method of claim 6, wherein one of the
  computing devices is capable of operating as a proxy for the Internet
  gateway and is capable of being assigned a unique client IP address
  and a proxy IP address, further wherein at least one of the other
  computing devices is capable of accessing the Internet by performing
  the steps of:
- transmitting from the respective computing device to the proxy a

  8 IP address of the proxy a message to be sent to the Internet; and

  9 transmitting from the proxy IP address of the proxy to the
- 10 computing device assigned as the gateway for the network the message
- 11 to be sent to the Internet.

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11. (Original) A storage medium readable by a computing device and having instructions encoded thereon for causing the computing device to perform, in a network comprising a plurality of computing devices, each computing device having a memory and being capable of accessing the Internet, and at least one of the computing devices being capable of connecting to the Internet, each computing device capable of connecting to the Internet having a connection priority, a method for assigning an Internet gateway for the network, the method comprising the steps of:

broadcasting to the network a request to become the gateway from one of the computing devices capable of connecting to the Internet, wherein the request to become the gateway includes the connection priority of the computing device broadcasting the request; and

assigning the computing device broadcasting the request as the gateway for the network if the computing device broadcasting the request does not receive a response from the other computing devices within a predetermined time period.

12. (Original) The storage medium of claim 11, wherein each computing device is assigned a unique Internet protocol (IP) address, and further wherein the method further comprises the steps of:

broadcasting to the network the IP address of the computing device assigned as the gateway for the network; and

6 storing in the memory of each computing device the IP address 7 broadcasted to the network as the IP address of the gateway for the network.

- 1 13. (Original) The storage medium of claim 11, wherein the computing device assigned as the gateway for the network is assigned a unique client IP address and assumes a predetermined gateway IP address.
- 1 14. (Original) The storage medium of claim 11, wherein one of 2 the computing devices is capable of operating as a proxy for the 3 Internet gateway and is capable of being assigned a unique client IP 4 address and a proxy IP address, and further wherein at least one of the 5 other computing devices is capable of accessing the Internet by 6 performing the steps of:
- transmitting from the respective computing device to the proxy
  IP address of the proxy a message to be sent to the Internet; and
  transmitting from the proxy IP address of the computing device
  assigned as the gateway for the network the message to be sent to the
  Internet.

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1 15. (Original) The storage medium of claim 11, wherein at least 2 one of the other computing devices capable of connecting to the 3 Internet responds to the broadcasted request to become the gateway 4 for the network by performing the steps of: determining whether the connection priority of the respective 5 6 computing device is higher than the connection priority included in 7 the broadcasted request to become the gateway; 8 if the connection priority of the respective computing device is 9 not higher than the connection priority included in the broadcasted 10 request, sending no response to the broadcasted request; and 11 if the connection priority of the respective computing device is 12 higher than the connection priority included in the broadcasted 13 request, performing the steps of: 14 broadcasting to the network a request to become the 15 gateway from the respective computing device within the 16 predetermined time period, wherein the request to become the 17 gateway includes the connection priority of the respective 18 computing device; and 19 assigning the respective computing device as the gateway

assigning the respective computing device as the gateway for the network if the respective computing device receives no response from the other computing devices within the predetermined time period.

16. (Original) In a network comprising a plurality of computing devices, each computing device having a memory and being capable of accessing the Internet, and at least on of the computing devices being capable of connecting to the Internet, each computing device capable of connecting to the Internet having a connection priority, a method for assigning an Internet gateway for the network, comprising the steps of:

broadcasting to the network a request for a new gateway from

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9 one of the computing devices;

in response to the request for new gateway, broadcasting to the network a request to become the gateway from each computing device capable of connecting to the Internet, wherein each request to become the gateway includes the connection priority of the respective computing device broadcasting the request to become the gateway; and in response to the request to become the gateway, performing by

each computing device capable of connecting to the Internet steps of:

determining whether the connection priority of the respective computing device is higher than the connection priority included in the broadcasted request to become the gateway; if the connection priority of the respective computing device is not higher than the connection priority included in the broadcasted request to become the gateway, sending no response to the broadcasted request to become the gateway; and if the connection priority of the respective computing device is higher than the connection priority included in the broadcasted request to become the gateway, performing the steps of:

broadcasting to the network a request to become the gateway from the respective computing device within the predetermined time period, wherein the request to become the gateway includes the connection priority of the respective computing device; and

assigning the respective computing device as the new gateway for the network if the respective computing device receives no response from the other computing devices within the predetermined time period.

1 17. (Original) The method of claim 16, wherein the predetermined time period is approximately 1 to 5 seconds.

- 1 18. (Original) The method of claim 16, wherein each computing 2 device is assigned a unique Internet protocol (IP) address, further 3 comprising the steps of:
- broadcasting to the network the IP address of the computing device assigned as the new gateway for the network; and
- storing in the memory of each computing device the IP address broadcasted to the network as the IP address of the gateway for the network.
- 1 19. (Original) The method of claim 16, wherein the computing 2 device assigned as the gateway for the network is assigned a unique 3 client IP address and assumes a predetermined gateway IP address.
- 20. (Original) The method of claim 16, wherein one of the computing devices is capable of operating as a proxy for the Internet gateway and is capable of being assigned a unique client IP address and a proxy IP address, and further wherein at least one of the other computing devices is capable of accessing the Internet by performing the steps of:
- transmitting from the respective computing device to the proxy

  IP address of the proxy a message to be sent to the Internet; and

  transmitting from the proxy IP address of the proxy to the

  computing device assigned as the gateway for the network the message

  to be sent to the Internet.

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1 21. (Original) A storage medium readable by a computing 2 device and having instructions encoded thereon for causing the 3 computing device to perform, in a network comprising a plurality of 4 computing devices, each computing device having a memory and being capable of accessing the Internet, and at least one of the computing 5 6 devices being capable of connecting to the Internet, each computing 7 device capable of connecting to the Internet having a connection priority, a method for assigning an Internet gateway for the network, 8 9 the method comprising the steps of: 10 broadcasting to the network a request for a new gateway from 11 one of the computing devices; 12 in response to the request for the new gateway, broadcasting to 13 the network a request to become the gateway from each computing 14 device capable of connecting to the Internet, wherein each request to 15 become the gateway includes the connection priority of the respective computing device broadcasting the request to become the gateway; and 16 in response to the request to become the gateway, performing by 17 18 each computing device capable of connecting to the Internet the steps 19 of: 20 determining whether the connection priority of the 21 respective computing device is higher than the connection 22 priority included in the broadcasted request to become the 23 gateway; 24 if the connection priority of the respective computing 25 device is not higher than the connection priority included in the 26 broadcasted request to become the gateway, sending no response 27 to the broadcasted request to become the gateway; and

device is higher than the connection priority included in the

if the connection priority of the respective computing

broadcasted request to become the gateway, performing the steps

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31 of: 32 broadcasting to the network a request to become the gateway from the respective computing device within the 33 predetermined time period, wherein the request to become 34 the gateway includes the connection priority of the 35 respective computing device; and 36 assigning the respective computing device as the 37 gateway for the network if the respective computing 38 device receives no response from the other computing 39 devices within the predetermined time period. 40

22. (Original) The storage medium of claim 21, wherein each computing device is assigned a unique Internet protocol (IP) address, and further wherein the method further comprises the steps of:

broadcasting to the network the IP address of the computing device assigned as the new gateway for the network; and

storing in the memory of each computing device the IP address broadcasted to the network as the IP address of the gateway for the network.

23. (Original) The storage medium of claim 21, wherein the computing device assigned as the gateway for the network is assigned a unique client IP address and assumes a predetermined gateway IP address.

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- 24. (Original) The storage medium of claim 21, wherein one to 1 the computing devices is capable of operating as a proxy for the 2 Internet gateway and is capable of being assigned a unique client IP 3 address and a proxy IP address, and further wherein at least one of the 4 other computing devices is capable of accessing the Internet by 5 б performing the steps of: 7 transmitting from the respective computing device to the proxy IP address of the proxy a message to be sent to the Internet; and 8 9 transmitting from the proxy IP address of the proxy to the computing device assigned as the gateway for the network the message 10 11 to be sent to the Internet.
- 25. (Withdrawn) In a network comprising a plurality of 1 computing devices, each computing device having a memory and being 2 capable of accessing the Internet, and one or more of the computing 3 devices being capable of connecting to the Internet, and one of the 4 computing devices being assigned as a current Internet gateway for 5 the network, a method for assigning an Internet gateway for the 6 network, comprising the steps of: 7 detecting a failure to access the Internet through the current 8 Internet gateway by one of the computing devices; 9 in response to the detected failure, dynamically assigning one of 10 the computing devices capable of connecting to the Internet as a new
- Internet gateway for the network; and 12 automatically reconfiguring each computing device to access the 13 Internet through the new Internet gateway. 14

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- 26. (Withdrawn) The method of claim 25, wherein each 1 2 computing device is assigned a unique Internet protocol (IP) address, and further wherein the step of automatically reconfiguring each 3 computing device to access the Internet through the new Internet 4 5 gateway further comprises the steps of: broadcasting to the network the IP address of the computing 6 7 device assigned as the new Internet gateway for the network; and 8 storing in the memory of each computing device the IP address broadcasted to the network as the IP address of the Internet gateway 9 for the network. 10
- 27. (Withdrawn) The method of claim 25, wherein the 1 computing device assigned as the gateway for the network is assigned 2 a unique client IP address and assumes a predetermined gateway IP 3 address. 4
  - 28. (Withdrawn) The method of claim 25, wherein one of the computing devices is capable of operating as a proxy for the Internet gateway and is capable of being assigned a unique client IP address and a proxy IP address, and further wherein at least one of the other computing devices is capable of accessing the Internet by performing the steps of:
- 7 transmitting from the respective computing device to the proxy IP address of the proxy a message to be sent to the Internet; and 8 9 transmitting from the proxy IP address of the proxy to the computing device assigned as the gateway for the network the message 10 to be sent to the Internet. 11

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- 29. (Withdrawn) The method of claim 25, wherein the step of 1 2 dynamically assigning one of the computing devices capable of connecting to the Internet as the new Internet gateway for the network 3 further comprises the steps of: 4 in response to the detected failure, broadcasting to the network a 5 request to become the gateway from one of the computing device 6 7 capable of connecting to the Internet, wherein the request to become the gateway includes the connection priority of the computing device 8 broadcasting the request; and 9 assigning the computing device broadcasting the request as the 10 new Internet gateway for the network if the computing device 11 broadcasting the request does not receive a response from the other 12 computing devices within a predetermined time period. 13
- 1 30. (Withdrawn) The method of claim 29, wherein the predetermined time period is approximately 1 to 5 seconds.
- 31. (Withdrawn) The method of claim 29, wherein at least one of the other computing devices capable of connection to the Internet responds to the broadcasted request to become the gateway by performing the steps of:

determining whether the connection priority of the respective computing device is higher than the connection priority included in the broadcasted request to become the gateway;

if the connection priority of the respective computing device is not higher than the connection priority included in the broadcasted request to become the gateway, sending no response to the broadcasted request; and

if the connection priority of the respective computing device is
higher than the connection priority included in the broadcasted
request to become the gateway, performing the step of:

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broadcasting to the network a request to become the gateway from the respective computing device within the predetermined time period, wherein the request to become the gateway includes the connection priority of the respective computing device; and

assigning the respective computing device as the new Internet gateway for the network if the respective computing device receives no response from the other computing devices within the predetermined time period.

32. (Withdrawn) The method of claim 31, wherein each computing device is assigned a unique Internet protocol (IP) address, and further wherein the step of automatically reconfiguring each computing device to access the Internet through the new Internet gateway further comprises the steps of:

broadcasting to the network IP address of the computing device assigned as the new Internet gateway for the network; and

storing in the memory of each computing device the IP address broadcasted to the network as the IP address of the Internet gateway for the network.

33. (Withdrawn) The method of claim 31, wherein the computing device assigned as the gateway for the network is assigned a unique client IP address and assumes a predetermined gateway IP address.

- 34. (Withdrawn) The method of claim 31, wherein one of the 1 computing devices is capable of operating as a proxy for the Internet 2 gateway and is capable of being assigned a unique client IP address 3 and a proxy IP address, and further wherein at least one of the other 4 computing devices is capable of accessing the Internet by performing 5 6 the steps of: transmitting from the respective computing device proxy IP 7 address of the proxy a message to be sent to the Internet; and 8 transmitting from the proxy IP address of the proxy to the 9 computing device assigned as the gateway for the network the message 10 to be sent to the Internet. 11
- 35. (Withdrawn) A storage medium readable by a computing 1 device and having instructions encoded thereon for causing the 2 computing device to perform, in a network comprising a plurality of 3 computing devices, each computing device having a memory and being 4 capable of accessing the Internet, and one or more of the computing 5 devices being capable of connecting to the Internet, and one of the 6 computing devices being assigned as a current Internet gateway for 7 the network, a method for assigning an Internet gateway for the 8 network, the method comprising the steps of: 9 detecting a failure to access the Internet through the current 10 Internet gateway by one of the computing devices; 11 dynamically assigning one of the computing devices capable of 12 13 connecting to the Internet as a new Internet gateway for the network; 14 and 15 automatically reconfiguring each computing device to access the 16 Internet through the new Internet gateway.

- 36. (Withdrawn) The storage medium of claim 35, wherein each computing device is assigned a unique Internet protocol (IP) address, and further wherein the step of automatically reconfiguring each computing device to access the Internet through the new Internet gateway further comprises the steps of:
- broadcasting to the IP address of the computing device assigned
  as the new Internet gateway for the network; and
- storing in the memory of each computing device the IP address broadcasted to the network as the IP address of the Internet gateway for the network.
- 37. (Withdrawn) The storage medium of claim 35, wherein the computing device assigned as the gateway for the network is assigned a unique client IP address and assumes a predetermined gateway IP address.
- 38. (Withdrawn) The storage medium of claim 35, wherein one of the computing devices is capable of operating as a proxy having a unique sending IP address and a unique receiving IP address, and further wherein at least one of the other computing devices is capable of accessing the Internet by performing the steps of:
- transmitting from the respective computing device to the
  receiving IP address of the proxy a message to be sent to the Internet;
  and
- routing from the sending IP address of the proxy to the
  computing device assigned as the gateway for the network the message
  to be sent to the Internet.

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39. (Withdrawn) The storage medium of claim 35, wherein the 1 2 step of dynamically assigning one of the computing devices capable of connecting to the Internet as the new Internet gateway for the network 3 4 further comprises the steps of: broadcasting to the network a request to become the gateway 5 from one of the computing devices capable of connecting to the 6 Internet, wherein the request to become the gateway includes the 7 connection priority of the computing device broadcasting the request; 8

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9 and
10 assigning the computing device broadcasting the request as the
11 new Internet gateway for the network if the computing device
12 broadcasting the request does not receive a response from the other

13 computing devices within a predetermined time period.

1 40. (Withdrawn) The storage medium of claim 39, wherein at
2 least one of the other computing devices capable of connecting to the
3 Internet responds to the broadcasted request to become the gateway by
4 performing the steps of:

determining whether the connection priority of the respective computing device is higher than the connection priority included in the broadcasted request to become the gateway;

if the connection priority of the respective computing device is not higher than the connection priority included in the broadcasted request to become the gateway, sending no response to the broadcasted request; and

if the connection priority of the respective computing device is higher than the connection priority included in the broadcasted request to become the gateway, performing the steps of:

broadcasting to network a request to become the gateway from the respective computing device within the predetermined time period, wherein the request to become the gateway includes

18 the connection priority of the respective computing device; and 19 assigning the respective computing device as the new Internet gateway for the network if the respective computing 20 device receives no response from the other computing devices 21 22 within the predetermined time period.

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41. (New) The method of claim 1, wherein broadcasting to the network the request to become the gateway comprising sending the request to more than one computing device.